HW#66: SSS, **SAS**, ASA

Geometry FORM A

Due Date: Tuesday, February 12th, 2013

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_\_

**Failure to show work on all problems or use complete sentences will result in a LaSalle.**

For #1- 9, determine if the two triangles are congruent. If so, write a congruency statement and identify what postulate is needed to prove the congruency. If not, write “not congruent” and explain *why*.

B

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| --- | --- | --- | --- |
| 1) example:   * given - side * given - angle * reflexive property - side * Side Angle Side | 2)  angle  side  side  A | | 3)    C  side  side  side  D |
| 4)    side  side  side | 5)  reflexive side | | 6)    Use Side Angle Side |
| 7) *DKA*, Δ*TKS* just like #6 | | 8) just like #2  B    D  A  C | |
| 9) Complete the proof. Use Side Side Side  **GIVEN:** ≅, ≅  *AD*  *BC*  *CD*  *AB*  **PROVE:** Δ*ABC* ≅Δ*CDA* | | | |
| 10) Use the given coordinates to determine if Δ*ABC* ≅Δ*DEF. You must use the distance formula MORE than once because you need to find the length of each side of each triangle!*  A  B  C  D  E  F  *A*(1, 2), *B*(4, –3), *C*(2, 5), *D*(4, 7), *E*(7, 2), *F*(5, 10)  *Find the Distance of the following sides, using*  side AB: side DE:  side BC: side EF:  side AC: side DF: | | | |
| 11) Find the distance between the two points.  (–5, 8), (0, –4) | | 13) Simplify with no decimals: | |
| 14) Simplify with no decimals: : | | | |